

Attorney Docket No. 43890-392

**COMBINED DECLARATION/POWER OF ATTORNEY FOR PATENT APPLICATION**

As a below named inventor(s), I(we) hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled **SENSOR AND METHOD FOR MANUFACTURING RESISTIVE ELEMENT THEREOF**, the specification of which

(check one) ☐ is attached hereto.

☒ was filed on 20 January 2000 as  
United States Application No. 09/463,144

☒ PCT International Patent Application Number PCT/JP99/02665  
filed 20 May 1999  
and was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

Priority Claimed

10-140892    Japan    22 May 1998  
(Number)    (Country)    (Day/Month/Year Filed)

☒ Yes    ☐ No

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

\_\_\_\_\_  
(Appln. Serial No.)

\_\_\_\_\_  
(Filing Date)

\_\_\_\_\_  
(Status-patented, pending, abandoned)

\_\_\_\_\_  
(Appln. Serial No.)

\_\_\_\_\_  
(Filing Date)

\_\_\_\_\_  
(Status-patented, pending, abandoned)

I hereby appoint as my attorneys, with full power of substitution and revocation, to prosecute the patent application identified above and to transact all business in the U.S. Patent and Trademark Office connected therewith:

Stephen A. Becker, Reg. No. 26,527; John G. Bisbikis, Reg. No. 37,095; Daniel Bucca, Reg. No. 42,368; Kenneth L. Cage, Reg. No. 26,151; Carina M. Tan, Reg. No. P-45,769; Stephen C. Carlson, Reg. No. 39,929; Jennifer Chen, Reg. No. 42,404; Bernard P. Codd, Reg. No. P-46,429; Thomas A. Corrado, Reg. No. 42,439; Lawrence T. Cullen, Reg. No. 44,489; Paul Devinsky, Reg. No. 28,553; Luan Do, Reg. No. 38,434; Margaret M. Duncan, Reg. No. 30,879; Brian E. Ferguson, Reg. No. 36,801; Michael E. Fogarty, Reg. No. 36,139; John R. Fuisz, Reg. No. 37,327; Willem F. Gadiano, Reg. No. 37,136; Keith E. George, Reg. No. 34,111; Matthew V. Grumbling, Reg. No. 44,427; John A. Hankins, Reg. No. 32,029; Joseph Hyosuk Kim, Reg. No. 41,425; Eric J. Kraus, Reg. No. 36,190; Jack Q. Lever, Reg. No. 28,149; Raphael V. Lupo, Reg. No. 28,363; Christine F. Martin, Reg. No. 39,762; Michael A. Messina, Reg. No. 33,424; Eugene J. Molinelli, Reg. No. 42,901; Dawn L. Palmer, Reg. No. 41,238; Joseph H. Paquin, Jr., Reg. No. 31,647; Scott D. Paul, Reg. No. 42,984; William D. Pegg, Reg. No. 42,988; Robert L. Price, Reg. No. 22,685; Thomas D. Robbins, Reg. No. 43,669; Gene Z. Robinson, Reg. No. 33,351; Joy Ann G. Serauskas, Reg. No. 27,952; Daniel H. Sherr, Reg. No. P-46,425; David A. Spenard, Reg. No. 37,449; Arthur J. Steiner, Reg. No. 26,106; David L. Stewart, Reg. No. 37,578; Wesley Strickland, Reg. No. 44,363; Michael D. Switzer, Reg. No. 39,552; Leonid D. Thenor, Reg. No. 39,397; Keith J. Townsend, Reg. No. 40,358; Daniel S. Trainor, Reg. No. 43,959; Cameron K. Weiffenbach, Reg. No. 44,488; Aaron Weisstuch, Reg. No. 41,557; Edward J. Wise, Reg. No. 34,523; Alexander V. Yampolsky, Reg. No. 36,324; and Robert W. Zelnick, Reg. No. 36,976

49

Please address all correspondence and telephone calls to:

MCDERMOTT, WILL & EMERY  
600 13th Street, N.W.  
WASHINGTON, D.C. 20005-3096  
Telephone: 202-756-8000

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor **Shinji UMEDA (Deceased)**  
**By leo UMEDA, heir of Deceased)**

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_  
Residence **41-60 Miyatani-cho, Takefu-shi, Fukui, 915-0013 JAPAN**  
Post Office Address SAME AS ABOVE Citizenship Japanese

Full name of second inventor **Koji NOMURA**

Inventor's signature Koji Nomura Date June 21, 2000  
Residence **37-8, Tawaradai 2-chome, Shijonawate-shi, Osaka 575-0013 JAPAN**  
Post Office Address SAME AS ABOVE Citizenship Japanese

Full name of third inventor **Akihiko IBATA**

Inventor's signature Akihiko Ibata Date June 21, 2000

Residence **3-5, Hagoromo 5-chome, Takaishi-shi, Osaka 592-0002 JAPAN**

Post Office Address SAME AS ABOVE Citizenship Japanese

Full name of fourth inventor **Hiroshi FUJII**

Inventor's signature Hiroshi Fujii Date June 21, 2000

Residence **43-2-705, Higashiyama 2-chome, Hirakata-shi, Osaka 573-1114 JAPAN**

Post Office Address SAME AS ABOVE Citizenship Japanese

Full name of fifth inventor **Takeshi MASUTANI**

Inventor's signature Takeshi Masutani Date June 21, 2000

Residence **1-10-2-201, Keihanhondori, Moriguchi-shi, Osaka 570-0083 JAPAN**

Post Office Address SAME AS ABOVE Citizenship Japanese

0016344-01400

P 20682

Attorney Docket No. 43890-392

**COMBINED DECLARATION/POWER OF ATTORNEY FOR PATENT APPLICATION**

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Prior Foreign Application(s)			Priority Claimed
<u>10-140892</u>	<u>Japan</u>	<u>22 May 1998</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
(Number)	(Country)	(Day/Month/Year Filed)	

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_____ (Appln. Serial No.)	_____ (Filing Date)	(Status-patented, pending, abandoned)
_____ (Appln. Serial No.)	_____ (Filing Date)	(Status-patented, pending, abandoned)

001120110390

I hereby appoint as my attorneys, with full power of substitution and revocation, to prosecute the patent application identified above and to transact all business in the U.S. Patent and Trademark Office connected therewith:

Stephen A. Becker, Reg. No. 26,527; John G. Bisbikis, Reg. No. 37,095; Daniel Bucca, Reg. No. 42,368; Kenneth L. Cage, Reg. No. 26,151; Carina M. Tan, Reg. No. P-45,769; Stephen C. Carlson, Reg. No. 39,929; Jennifer Chen, Reg. No. 42,404; Bernard P. Codd, Reg. No. P-46,429; Thomas A. Corrado, Reg. No. 42,439; Lawrence T. Cullen, Reg. No. 44,489; Paul Devinsky, Reg. No. 28,553; Luan Do, Reg. No. 38,434; Margaret M. Duncan, Reg. No. 30,879; Brian E. Ferguson, Reg. No. 36,801; Michael E. Fogarty, Reg. No. 36,139; John R. Fuisz, Reg. No. 37,327; Willem F. Gadiano, Reg. No. 37,136; Keith E. George, Reg. No. 34,111; Matthew V. Grumbling, Reg. No. 44,427; John A. Hankins, Reg. No. 32,029; Joseph Hyosuk Kim, Reg. No. 41,425; Eric J. Kraus, Reg. No. 36,190; Jack Q. Lever, Reg. No. 28,149; Raphael V. Lupo, Reg. No. 28,363; Christine F. Martin, Reg. No. 39,762; Michael A. Messina, Reg. No. 33,424; Eugene J. Molinelli, Reg. No. 42,901; Dawn L. Palmer, Reg. No. 41,238; Joseph H. Paquin, Jr., Reg. No. 31,647; Scott D. Paul, Reg. No. 42,984; William D. Pegg, Reg. No. 42,988; Robert L. Price, Reg. No. 22,685; Thomas D. Robbins, Reg. No. 43,669; Gene Z. Rubinson, Reg. No. 33,351; Joy Ann G. Serauskas, Reg. No. 27,952; Daniel H. Sherr, Reg. No. P-46,425; David A. Spenard, Reg. No. 37,449; Arthur J. Steiner, Reg. No. 26,106; David L. Stewart, Reg. No. 37,578; Wesley Strickland, Reg. No. 44,363; Michael D. Switzer, Reg. No. 39,552; Leonid D. Thenor, Reg. No. 39,397; Keith J. Townsend, Reg. No. 40,358; Daniel S. Trainor, Reg. No. 43,959; Cameron K. Weiffenbach, Reg. No. 44,488; Aaron Weisstuch, Reg. No. 41,557; Edward J. Wise, Reg. No. 34,523; Alexander V. Yampolsky, Reg. No. 36,324; and Robert W. Zelnick, Reg. No. 36,976

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Full name of sole or first inventor Shinji UMEDA (Deceased)  
By leo UMEDA, heir of Deceased)

Inventor's signature Sho Umeda Date June 21, 2000  
Residence 41-60 Miyatani-cho, Takefu-shi, Fukui, 915-0013 JAPAN JPX  
Post Office Address SAME AS ABOVE Citizenship Japanese

Full name of second inventor Koji NOMURA

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_  
Residence 37-8, Tawaradai 2-chome, Shijonawate-shi, Osaka 575-0013 JAPAN JPX  
Post Office Address SAME AS ABOVE Citizenship Japanese

3-00

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence 3-5, Hagoromo 5-chome, Takaishi-shi, Osaka 592-0002 JAPAN

Post Office Address SAME AS ABOVE Citizenship Japanese

4-00

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence 43-2-705, Higashiyama 2-chome, Hirakata-shi, Osaka 573-1114 JAPAN JP X

Post Office Address SAME AS ABOVE Citizenship Japanese

5-00

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

**Residence 1-10-2-201, Keihanhondori, Moriguchi-shi, Osaka 570-0083 JAPAN**

Post Office Address SAME AS ABOVE Citizenship Japanese

The following table shows the results of the regression analysis for the dependent variable  $\ln Y$  (ln of the dependent variable) and the independent variables  $X_1$  to  $X_6$  (ln of the independent variables). The table is divided into two parts: the first part shows the results of the regression analysis for the dependent variable  $\ln Y$  and the independent variables  $X_1$  to  $X_6$ , and the second part shows the results of the regression analysis for the dependent variable  $\ln Y$  and the independent variables  $X_1$  to  $X_6$ .

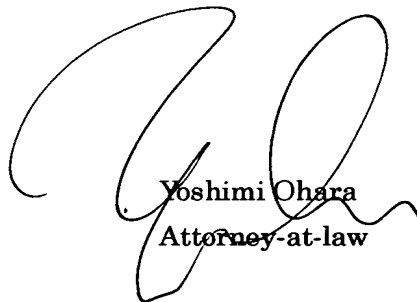
## DECLARATION

Regarding the invention titled "SENSOR AND METHOD FOR MANUFACTURING RESISTIVE ELEMENT THEREOF," one of the inventors (Shinji Umeda) has passed away, and his legal heir executed the necessary documents for the patent application.

Under Japanese civil law when the deceased do not have any lineal descendants (children of grandchildren), their lineal ascendants (parents or grandparents) or siblings become heirs-at-law and are entitled to inherit the estate of the deceased. When both lineal ascendants and siblings exist, lineal ascendants have priority and siblings are not entitled to inherit the estate. When the deceased have more than one lineal ascendant, the nearest one to the deceased have priority i.e. if both grandparents and parents are alive, parents have priority and grandparents are not entitled to inherit the estate (Civil Code Article 889 I (1)). Spouses always become legal heirs and inherit half of the estate in cases where other legal heirs exist.

The inventor, Shinji Umeda passed away without expressing his last will regarding the invention in question, so that his legal heirs inherit the invention.

The late Shinji Umeda did not have spouse or children. Thus, under Japanese law his parents become his legal heirs. His mother, Mihoko Umeda passed away before the inventor passed away and, therefore, his father Ieo Umeda is the sole legal heir of the invention in question.



Yoshimi Ohara  
Attorney-at-law

Remarks: background of Yoshimi Ohara

Date of birth:

February 24, 1966

Personal residence:

11-30, Futami-cho, Nishinomiya, Hyogo JAPAN

Educational background:

The University of Tokyo (LLB. 1990)

The Legal Training and Research Institute of the Supreme Court (1992)

Professional background:

Admitted to practice law by the Japanese Bar Association (1992)

A member of Dai-ichi Tokyo Bar Association

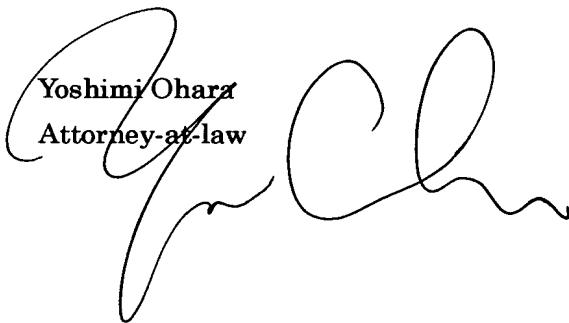
Practicing law since April in 1992

#### CERTIFICATE

I hereby certify that all the above statements are to the best of my knowledge true and correct as of the date hereof and based on the facts made available to me; I understand that any willful false statements are punishable by fine or imprisonment or both under Section 1001 of Title 18 of the United States Code, and may jeopardize the validity of the application or any patent issued thereon.

Date: June 28, 2000

Yoshimi Ohara  
Attorney-at-law

A large, stylized handwritten signature in black ink, appearing to read 'Yoshimi Ohara', is written over the printed name and title.



私、小原 淳見は、1966 年 2 月 24 日生まれであり、兵庫県西宮市二見町 11-30 に住所を有する。私は、東京大学法学部において法学学士号を取得し(1990 年 3 月)、1992 年 3 月に最高裁判所司法研修所での修習を終了し、1992 年 4 月から弁護士として活動している。

日本国民法における法定相続の規定では、子や孫がいないときには、直系尊属または兄弟姉妹が相続人になり、また直系尊属と兄弟姉妹が存在するときは、直系尊属が上位順位にたち、さらに直系尊属のなかでも親等の異なるものの間では、その近いものを先にする（民法第 889 条第 1 項第 1 号）ということになっている。また、配偶者は常に他の相続人と同順位の相続人となる。

今回の発明者である梅田眞司氏には、本件発明に関して特段の遺言はないため、法定の相続人に相続される。

同氏には、配偶者および子や孫はいない。よって法的相続の規定に従い、相続人は親等の最も近い両親になる（民法第 889 条第 1 項第 1 号）。

発明者である梅田眞司氏の両親のうち、母である梅田美穂子氏は、梅田眞司氏が死去する前に死去しており、父である梅田家男が単独の相続人になる。

## CERTIFICATE

I, Toyoshi Okada, c/o Matsushita Technical Information Services Co., Ltd., National Tower 11F., Osaka Business Park 2-1-61, Shiromi, Chuo-Ku, Osaka City, Osaka Japan, hereby certify as follows:

1. I am a translator and am familiar with both the English and Japanese languages.
2. I am the translator of the attached documents and certify that the documents are the true translations to the best of my knowledge and belief.

Date: June 30, 2000

A handwritten signature in black ink, appearing to read 'Toyoshi Okada', with a stylized, flowing script.

Toyoshi Okada (signature)

**Translation of extract of Mr. Ieo Umeda's family register**

**Front page:**

Regal residence: 41-60, Miyatani-cho, Takefu-City, Fukui Prefecture

Person's name: Ieo Umeda

Because of the marriage report to the office, this family is established on September 29, 1958.

Husband: Ieo Umeda born on August 9, 1929 and married with Mihoko Yamada on September 29, 1958. Wife deceased on July 15, 1986.

**Second page**

Wife: Mihoko born on February 16, 1930, married with Mr. Ieo Umeda on September 29, 1958, and deceased on July 15, 1986, at 08:40 a.m, which was reported by Mr. Ieo Umeda, and the name of Mihoko was crossed out from the family register.

Eldest daughter: Junko born on May 5, 1959 between Mr. Ieo Umeda and Mrs. Mihoko Umeda.

**Third page**

Eldest son: Koji born on February 23, 1961 between the Mr. Ieo Umeda and Mrs. Mihoko Umeda, and married with Mayumi Sugita on March 4, 1987.

Second eldest son: Shinji born on July 3, 1965 between Mr. Ieo Umeda and Mrs. Mihoko Umeda, and deceased on January 08, 2000, at 07:50 p.m., which was reported by Koji Umeda, his brother, and the name of Shinji was crossed out from the family register.

**Last page**

I hereby certify that this family register of Ieo Umeda is identical copy of the original census register.


Date: March 24, 2000

Tokio Miki

Mayor of Tekefu City,

Fukui Prefecture[Seal]

本籍		福井県武生市 宮石町第四十一号六十番地		氏名		梅田家男	
婚姻の届出により昭和参拾参年九月式拾九日 夫婦に付本戸籍編製済							
昭和四年八月九日朝鮮半島道 帝州郡帝州面帝安里二百十九番地 出生父梅田森澤局出同日式拾五号受附人籍				父		梅田森澤	
山田美穂子と婚姻届出昭和参拾参年九月式拾九日受附今之郡 田村福前第十七号一番地梅田森澤戸籍より人籍				母		家女	
父母との縁断復更により昭和参拾四年式拾六日二男と訂正				来		家男	
昭和六拾参年七月拾五日妻死亡				生		昭和四年八月九日	
戸籍用紙				福井県武生市役所			
昭和五年式月拾六日今之郡東田部町第二十九号三十七番地出生 父山田盛夫局出同日式拾五号受附人籍				父		七山日盛夫	
昭和参拾参年九月式拾九日梅田家男と婚姻届出今之郡今之町 東田部第十五号三十九番地山田静子戸籍より同日人籍				母		静子	
昭和六拾参年七月拾五日午前八時四拾分福井市で死亡同日親族梅田家男届 出除籍				妻		美穂子	
昭和参拾四年五月五日今之郡今之町東田部第三十三号十一番地出生父 梅田家男局出同日拾五日今之町長受附同日拾九日送付人籍				父		梅田家男	
				母		美穂子	
				生		昭和五年式月拾六日	
				父		梅田家男	
				母		美穂子	
				生		昭和参拾四年五月五日	
				父		梅田家男	
				母		美穂子	
				生		昭和参拾四年五月五日	
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				母		美穂子	
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				父		梅田家男	
				母		美穂子	
				生		昭和参拾四年五月五日	
				父		梅田家男	
				母		美穂子	



男 田家 田梅

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附入  
籍  
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[illegible]

隆慶元年

この謄本は戸籍の原本と相違ないことを認証する

平成拾貳年参月貳拾四日

福井県武生市長 三木 勅

